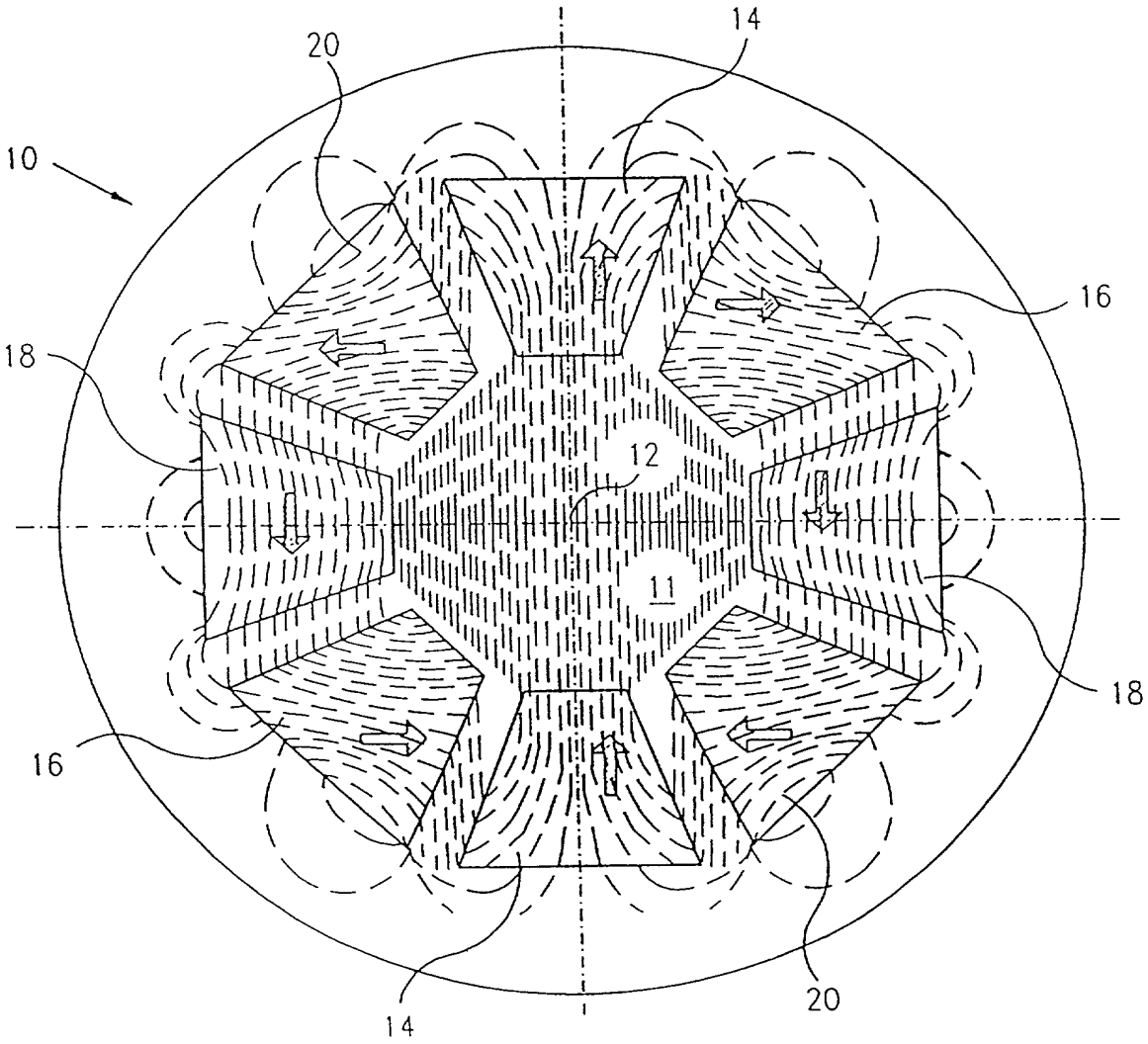
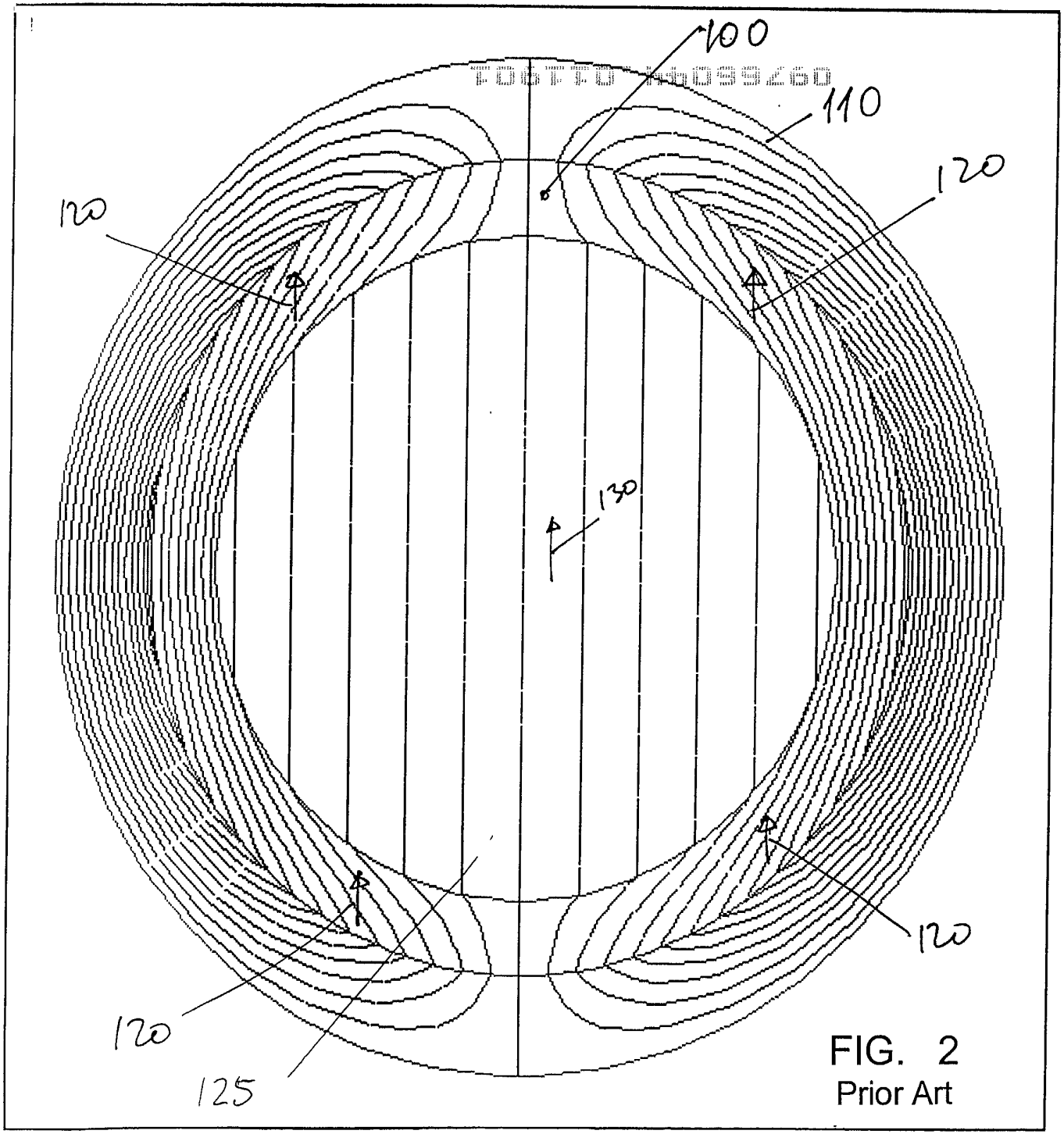
FIG. 1
PRIOR ART



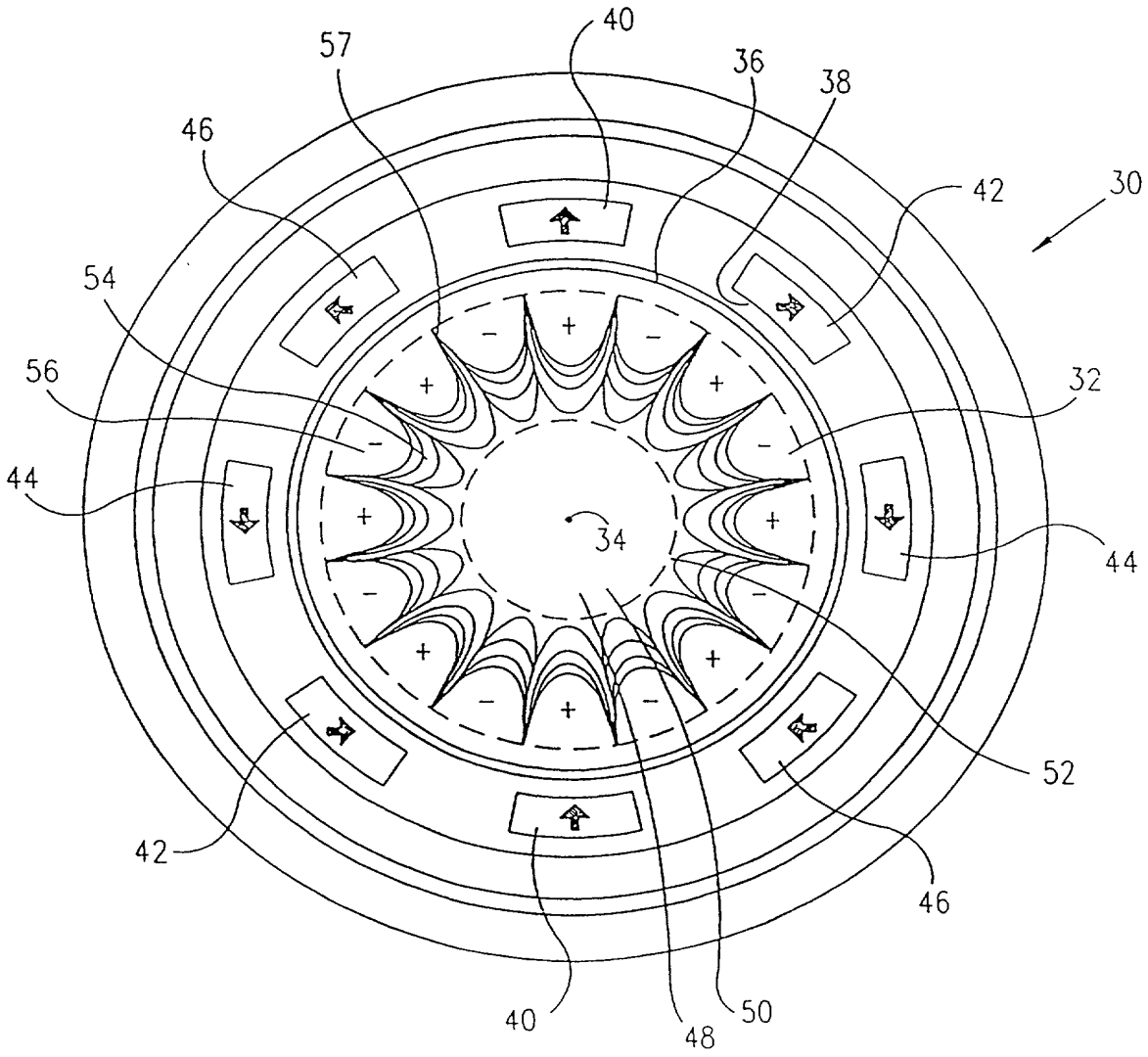


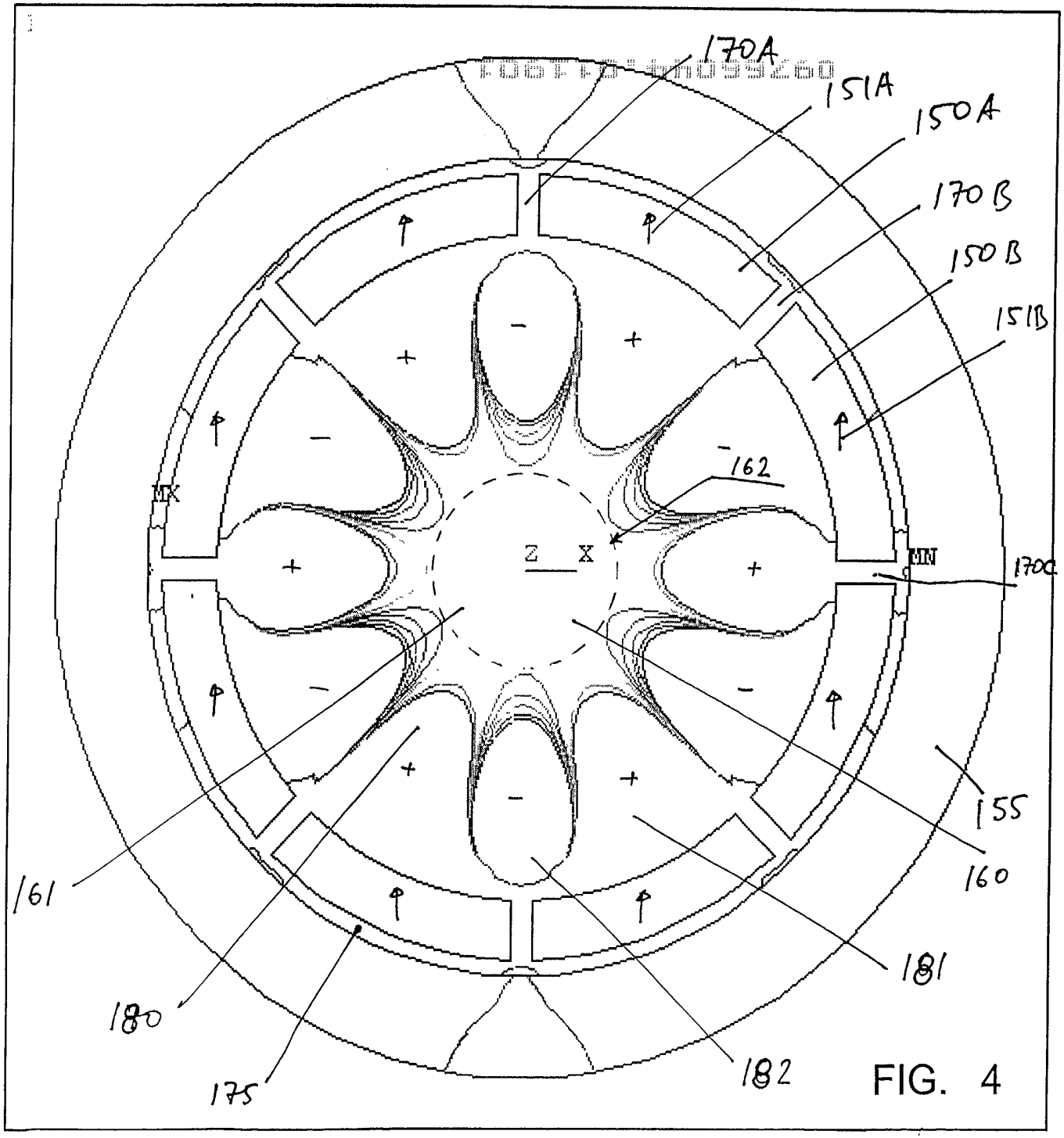
ANSYS 5.6
JUN 29 2000
15:48:46
NODAL SOLUTION
STEP=1
SUB =1
TIME=1
AZ
RSYS=0
SMN =-.0088
SMX =.0088

-.008474
-.007822
-.007171
-.005867
-.005215
-.003911
-.003259
-.001956
-.001304
-.435E-13
.652E-03
.001304
.002607
.003259
.004563
.005215
.006519
.007171
.008474

FIG. 2
Prior Art

FIG. 3





ANSYS 5.6
JUN 28 2000
17:30:32
NODAL SOLUTION
STEP=1
SUB =1
TIME=1
BSUM (AVG)
RSYS=0
PowerGraphics
EFACET=1
AVRES=Mat
SMN =.257E-04
SMX =.902715
A =.091037
B =.091139
C =.091241
D =.091342
E =.091444

H =.091749
I =.091851

FIG. 4

Gap = 0.08"

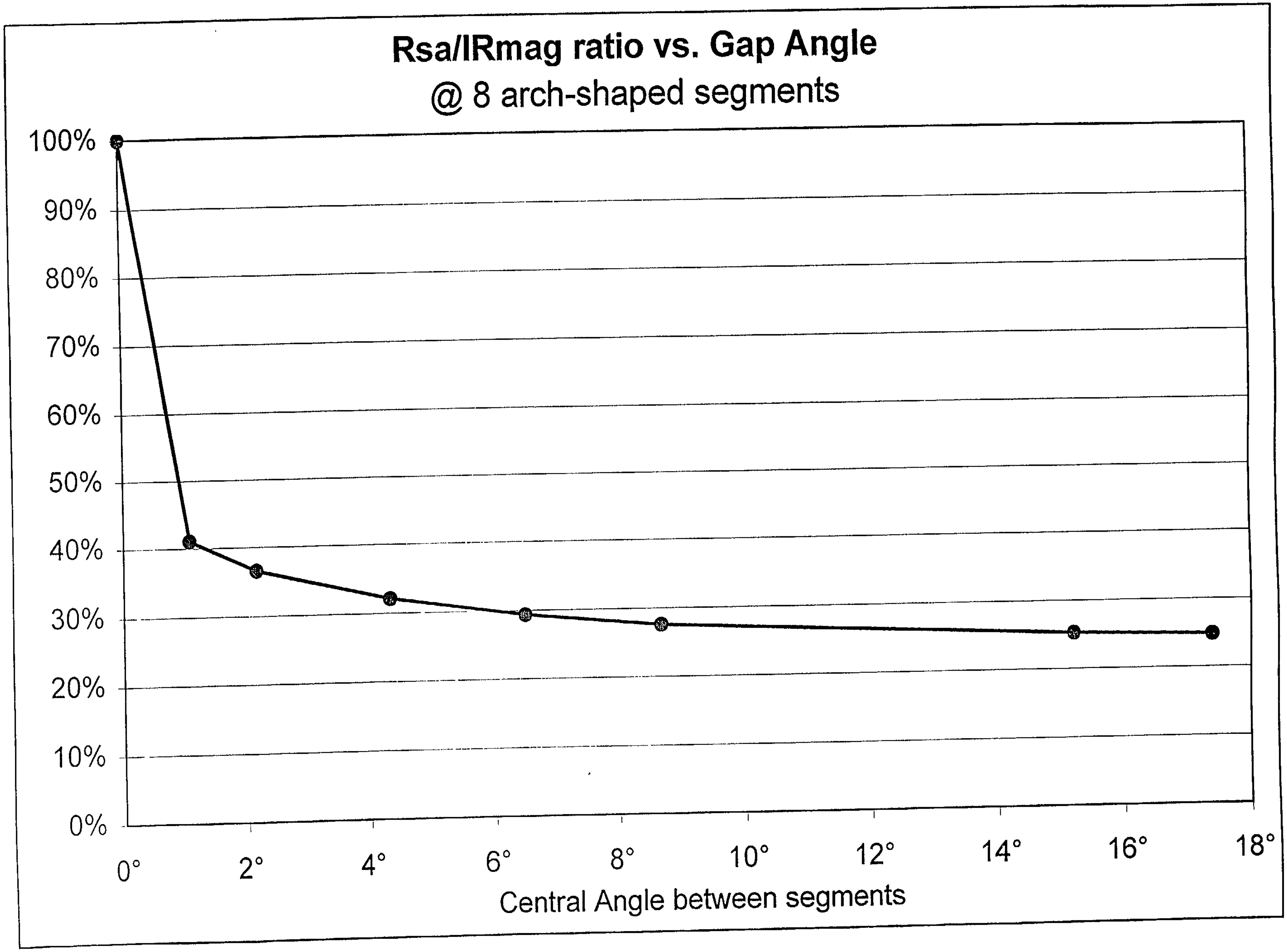

Rsa/IRmag ratio vs. Gap Angle
@ 8 arch-shaped segments
100%
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
0°
2°
4°
6°
8°
10°
12°
14°
16°
18°
Central Angle between segments

FIG. 5

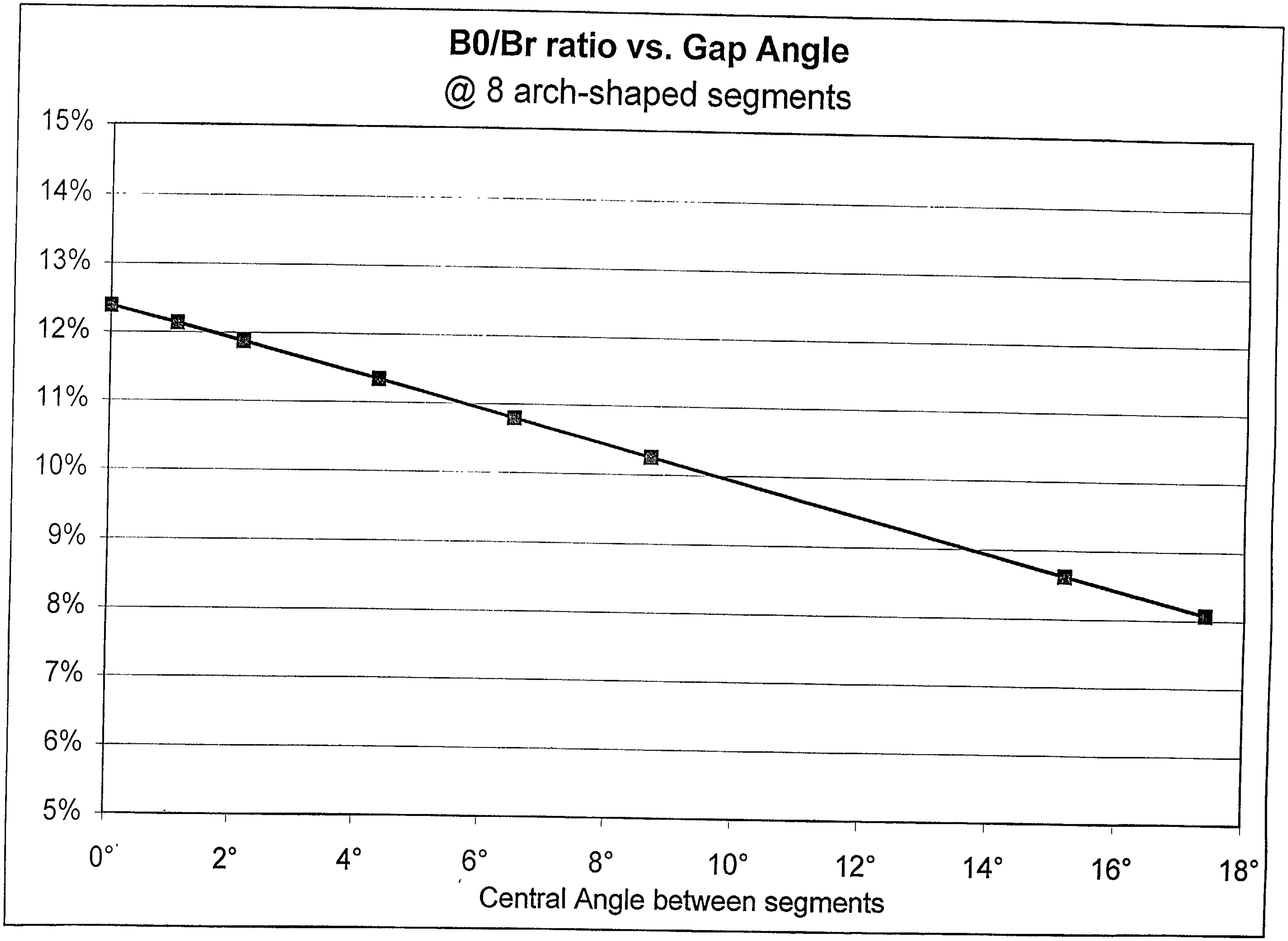

B0/Br ratio vs. Gap Angle
@ 8 arch-shaped segments
15%
14%
13%
12%
11%
10%
9%
8%
7%
6%
5%
0°
2°
4°
6°
8°
10°
12°
14°
16°
18°
Central Angle between segments

FIG. 6

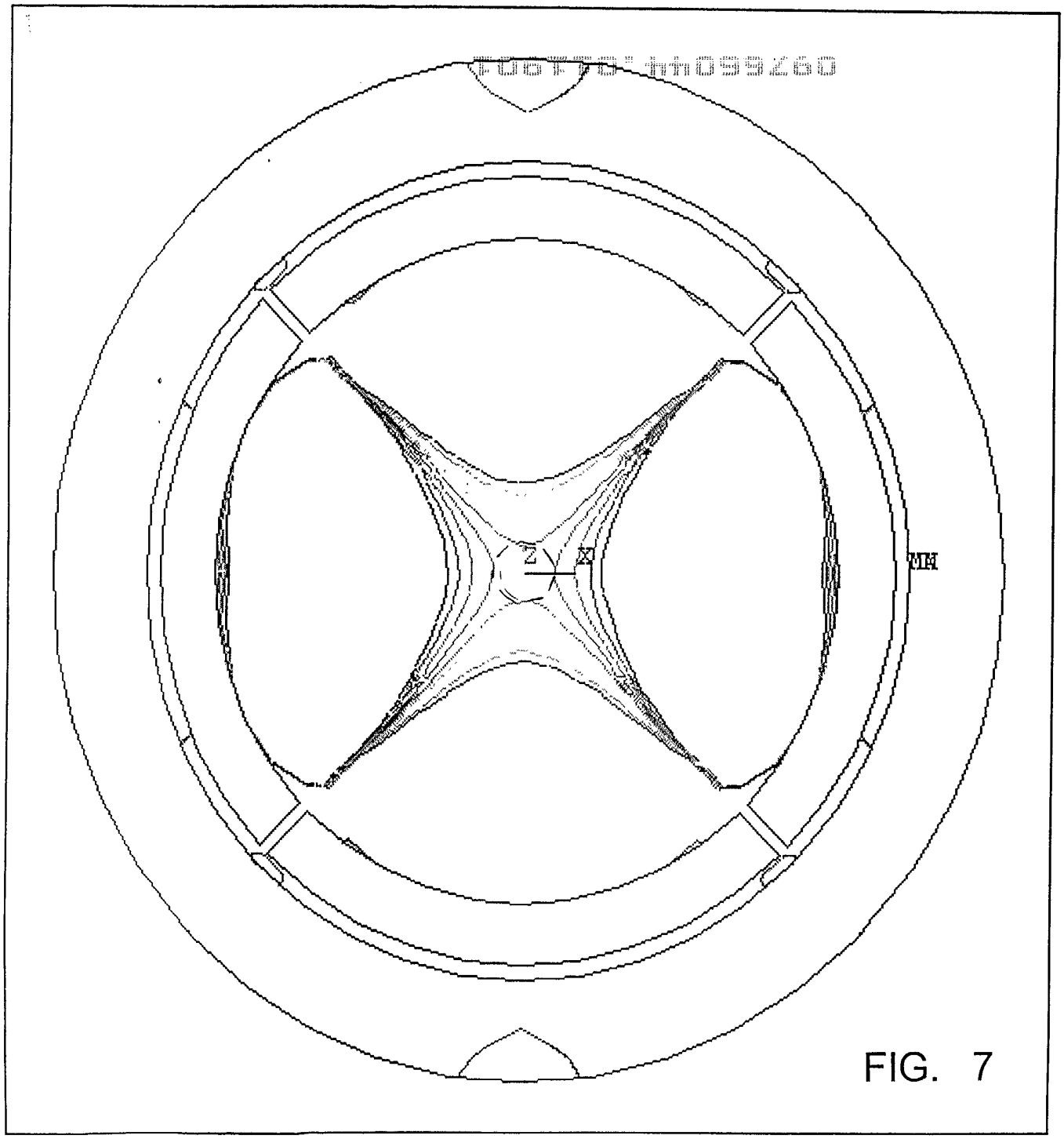

ANSYS 5.6
JUN 29 2000
13:42:09
NODAL SOLUTION
STEP=1
SUB =1
TIME=1
BSUM (AVG)
RSYS=0
PowerGraphics
EFACET=1
AVRES=Mat
SMN =.001784
SMX =.944143
A =.097469
B =.097591
C =.097714
D =.097836
E =.097959
H =.098326
I =.098448
4 segments x 45°
Gap = 0.04"

FIG. 7

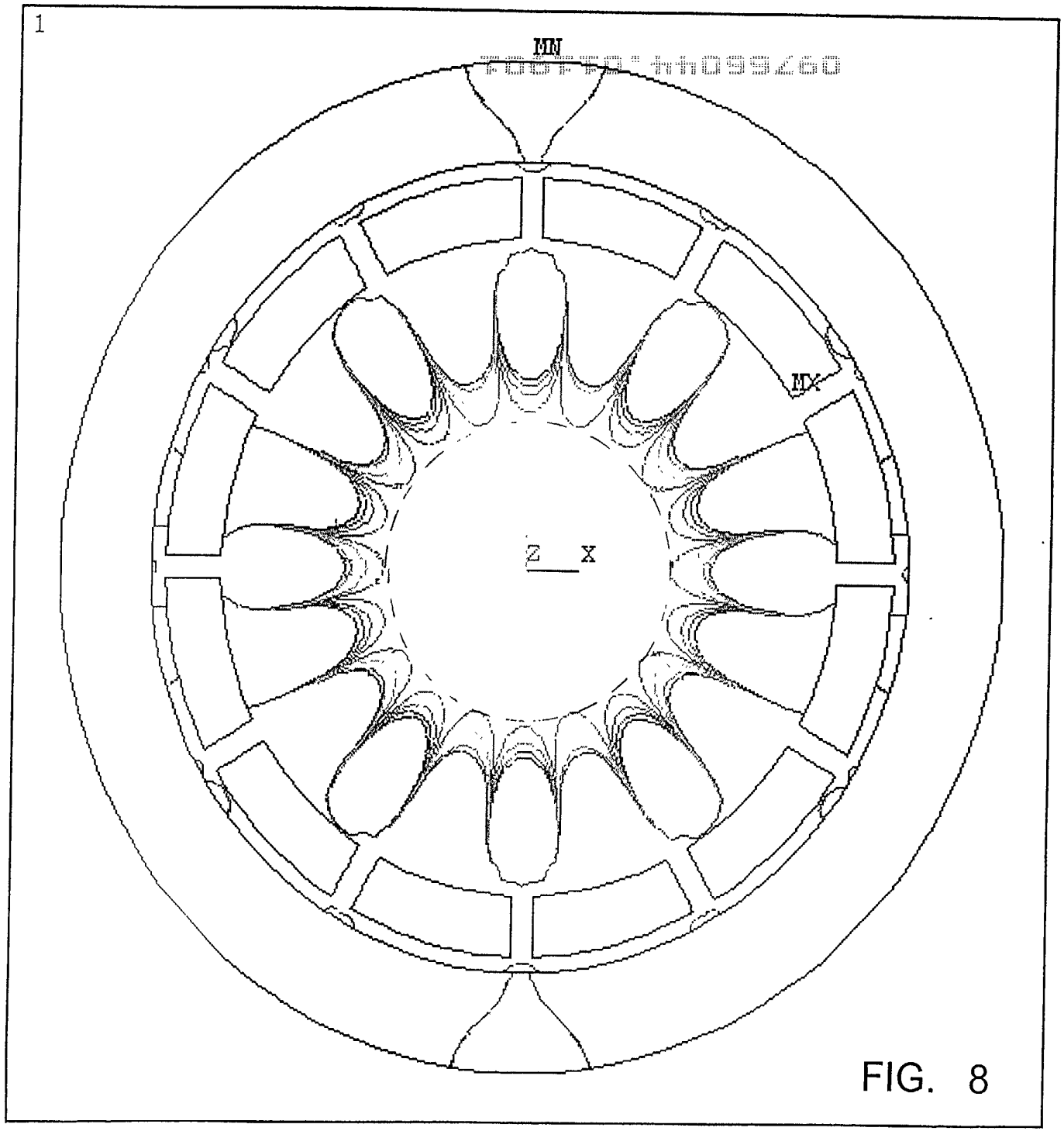


FIG. 8

12 segments

Gap = 0.08"